

WHAT IS CLAIMED IS:

1. A method for requesting Wireless Telephony Application (WTA) protocol based actions, the method comprising:
 - receiving a request for execution of the WTA protocol based action by a target mobile terminal having a WTA agent, the request including an identification code that
 - 5 identifies a destination device for the WTA protocol based action;
 - associating a Uniform Resource Locator (URL) with the identification code that identifies the destination device;
 - generating at a server a push command including the associated URL; and
 - transmitting the push command to the target mobile terminal to initiate the
 - 10 requested WTA protocol based action by the WTA agent of the target mobile terminal.
2. The method of Claim 1, wherein the server comprises one of an applications server and a WTA server.
- 15 3. The method of Claim 1, wherein the WTA protocol based action comprises initiation of a call from the target mobile terminal to the destination device.
4. The method of Claim 3, wherein the identification code that identifies
- 20 the destination device comprises a contact number and wherein the request for execution of the WTA protocol based action further comprises:
 - a contact number of the target mobile terminal; and
 - a desired start time of a first call.
- 25 5. The method of Claim 4, wherein the WTA protocol based action comprises successive initiations of calls from the target mobile terminal to the destination device and wherein transmitting the push command to the target mobile terminal comprises repeatedly transmitting the push command to the target mobile
- 30 according to an interval specified by the request for execution of the WTA protocol based action.

6. The method of Claim 5, wherein the interval specified by the request for execution of the WTA protocol based action is a periodic interval.

5 7. The method of Claim 5, wherein the request for execution of the WTA protocol based action further comprises an indication of when execution of the calls should terminate.

8. The method of Claim 7, wherein the indication of when execution of the calls should terminate comprises a stop time.

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9. The method of Claim 7, wherein the indication of when the execution of the calls should terminate comprises a number of calls to be made.

10. The method of Claim 1, wherein the URL is associated with a script stored by the server, the script initiating execution of the WTA protocol based action.

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11. The method of Claim 10, wherein the WTA protocol based action comprises initiation of a call from the target mobile terminal to the destination device and wherein the target mobile terminal receives the script and executes a make call command in the WTA user agent of the target mobile terminal responsive to receipt of the script.

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12. The method of Claim 11, wherein the make call command is associated with the Wireless Telephony Application Interface (WTAI) public library.

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13. The method of Claim 1, wherein the association of the URL with the identification code that identifies the destination device is performed by an application executing on an applications server.

14. The method of Claim 13, wherein the applications server is the server generating the push command.

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15. The method of Claim 1, wherein the push command comprises:
a pointer to a Push Proxy Gateway (PPG) of the target mobile terminal;
an identifier of a contact number of the target mobile terminal;
a pointer to the WTA user agent of the target mobile terminal; and
the URL.

16. The method of Claim 15, wherein the URL is associated with a script,
stored at the server, the script initiating execution of the WTA protocol based actions.

17. The method of Claim 1, wherein transmitting the push command to the
target mobile terminal further comprises transmitting the push command to a Push
Proxy Gateway (PPG) of the target mobile terminal and wherein the following are
performed by the PPG:

initiating an authentication between the server and the target mobile terminal;
determining if a Wireless Application Protocol (WAP) session has been
initiated;
initiating the WAP session if the WAP session has not been initiated; and
transmitting a Service Load (SL) push command to the WTA user agent of the
target mobile terminal using the WAP session wherein the SL push command
includes the URL.

18. The method of Claim 17, wherein transmitting the push command to
the target mobile terminal is followed by accessing the URL in the WTA agent
wherein the URL is associated with a script that executes a make call command
associated with the WTAI public library and initiating the WTA protocol based
action; and wherein the WTA protocol based action comprises initiation of a call from
the target mobile terminal to the destination device.

19. The method of Claim 17, wherein initiating the WAP session
comprises sending a Session Initiation Application (SIA) to the WTA agent and
wherein the WTA agent initiates the WAP session responsive to the SIA.

20. A method for requesting Wireless Telephony Application (WTA) protocol based actions, the method comprising:

- 5 receiving from a request center a request for execution of the WTA protocol based action by a target mobile terminal having a WTA agent;
generating at a WTA server a push command selecting a state of the target mobile terminal based on the requested WTA protocol based action;
transmitting the push command to the WTA agent of the target mobile
10 terminal; and
notifying the request center that the push command has been transmitted to the WTA agent of the target mobile terminal.

21. The method of Claim 20, wherein the request for execution of the
15 WTA protocol based action comprises a contact number of the target mobile terminal.

22. The method of Claim 20, wherein the WTA protocol based action comprises automatically accepting a call at the target mobile terminal.

- 20 23. The method of Claim 20, wherein the request center comprises a customer service center having an applications server and wherein the applications server receives the request for execution of the WTA protocol based action and forwards the request to the WTA server.

24. The method of Claim 20, further comprising:
initiating a communication from the request center to the target mobile
terminal; and
initiating at the target mobile terminal the WTA protocol based action
responsive to the communication from the request center to the target mobile
30 terminal.

25. The method of Claim 24, wherein initiating a communication from the request center to the target mobile terminal is performed by an application executing on the applications server.

26. The method of Claim 24, wherein initiating a communication from the request center to the target mobile terminal is performed at the request center responsive to a notification generated by an application executing on the applications server that indicates to the request representative that the communication should be initiated.

27. The method of Claim 20 wherein the state of the target mobile terminal is an accept call state and wherein the accept call state is activated by an accept call command located in the Wireless Telephony Application Interface (WTAI) private library.

28. The method of Claim 20, wherein transmitting the push command to the WTA agent of the target mobile terminal is preceded by:

15 initiating an authentication between the WTA server and the target mobile terminal;

determining if a Wireless Application Protocol (WAP) session has been initiated; and

initiating the WAP session if WAP session has not been initiated; and wherein

20 transmitting the push command to the WTA agent of the target mobile terminal is followed by:

transmitting a Service Load (SL) push command to the WTA user agent of the target mobile terminal using the WAP session wherein the SL push includes a URL; and

25 accessing a URL in the WTA agent wherein the URL is associated with a script that executes an accept call command associated with a Wireless Telephony Application Interface (WTAI) private library.

29. The method of Claim 28, wherein accessing the URL is followed by automatically accepting a call at the target mobile terminal.

30. The method of Claim 28, wherein initiating the WAP session comprises sending a Session Initiation Application (SIA) to the WTA agent and wherein the WTA agent initiates the WAP session responsive to the SIA.

31. The method of Claim 20, wherein the push command comprises an accept call command associated with a Wireless Telephony Application Interface (WTAI) private library.

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32. The method of Claim 20 wherein initiating at the target mobile terminal the WTA protocol based action is followed by obtaining information from the target mobile.

10 33. The method of Claim 32, wherein the information comprises positioning information provided by at least one of a Global Positioning System (GPS) associated with the target mobile terminal and a land based automated positioning system associated with the target mobile terminal.

15 34. The method of Claim 32, wherein the information comprises an image provided by a digital camera device associated with the target mobile terminal.

35. A system for requesting Wireless Telephony Application (WTA) protocol based actions, comprising:

20 a server that receives a request for execution of the WTA protocol based action by a target mobile terminal having a WTA agent, the request including an identification code that identifies a destination device for the WTA protocol based action;

25 an association application that associates a Uniform Resource Locator (URL) with the identification code that identifies the destination device;

a push application executing on the server that generates a push command including the associated URL and transmits the push command to the target mobile terminal to initiate the requested WTA protocol based action by the WTA agent of the target mobile terminal.

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36. The system according to Claim 35, wherein the server comprises one of an applications server and a WTA server.

37. The system according to Claim 35, wherein the WTA protocol based action comprises initiation of a call from the target mobile terminal to the destination device.

5 38. The system according to Claim 37, wherein the identification code that identifies the destination device comprises a contact number and wherein the request for execution of the WTA protocol based action further comprises:

a contact number of the target mobile terminal; and
a desired start time of a first call.

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39. The system according to Claim 38, wherein the WTA protocol based action comprises successive initiations of calls from the target mobile terminal to the destination device and wherein the push application repeatedly transmits the push command to the target mobile according to an interval specified by the request for
15 execution of the WTA protocol based action.

40. The system according to Claim 39, wherein the interval specified by the request for execution of the WTA protocol based action is periodic.

20 41. The system according to Claim 40, wherein the request for execution of the WTA protocol based action further comprises an indication of when execution of the calls should terminate.

25 42. The system according to Claim 41, wherein the indication of when execution of the calls should terminate comprises a stop time.

43. The system according to Claim 42, wherein the indication of when the execution of the calls should terminate comprises a number of calls to be made.

30 44. The system according to Claim 35, wherein the association application associates a URL with a script stored by the server, the script initiating execution of the WTA protocol based action.

45. The system according to Claim 44, wherein the WTA protocol based action comprises initiation of a call from the target mobile terminal to the destination device and wherein the target mobile terminal receives the script and executes a make call command in the WTA user agent of the target mobile terminal responsive to receipt of the script.

46. The system according to Claim 45, wherein the make call command is associated with the Wireless Telephony Application Interface (WTAI) public library.

47. The system according to Claim 35, wherein the association application that associates the URL with the identification code that identifies the destination device executes on an applications server.

48. The system according to Claim 47, wherein the push application that generates the push command executes on the applications server.

49. The system according to Claim 48, wherein the push command comprises:
a pointer to a Push Proxy Gateway (PPG) of the target mobile terminal;
an identifier of a contact number of the target mobile terminal;
a pointer to the WTA user agent of the target mobile terminal; and
the URL.

50. The system according to Claim 49, wherein the association application associates the URL with a script, stored at the server, the script initiating execution of the WTA protocol based actions.

51. The system according to Claim 35, wherein the push application transmits the push command to a Push Proxy Gateway (PPG) of the target mobile terminal and wherein the following are performed by the PPG:
means for initiating an authentication between the server and the target mobile terminal;
means for determining if a Wireless Application Protocol (WAP) session has been initiated;

means for initiating the WAP session if the WAP session has not been initiated; and

means for transmitting a Service Load (SL) push command to the WTA user agent of the target mobile terminal using the WAP session wherein the SL push
5 command includes the URL.

52. The system according to Claim 51, wherein the WTA agent receives a script and executes a make call command associated with the WTAI public library maintained by the WTA agent responsive to the URL; and wherein the WTA agent of
10 the target mobile terminal is configured to initiate the WTA protocol based action responsive to the SL push.

53. The system according to claim 52, wherein the WTA protocol based action comprises initiation of a call from the target mobile terminal to the destination
15 device.

54. The system according to Claim 53, wherein the means for initiating the WAP session comprises means for sending a Session Initiation Application (SIA) to the WTA agent and wherein the WTA agent is configured to initiate the WAP session
20 responsive to the SIA.

55. A system for requesting Wireless Telephony Application (WTA) protocol based actions, comprising:
a receiving server that receives from a request center a request for execution of
25 the WTA protocol based action by a target mobile terminal having a WTA agent;
a push application executing on a WTA server that generates a push command selecting a state of the target mobile terminal based on the requested WTA protocol based action and transmits the push command to the WTA agent of the target mobile terminal; and
30 a notification application executing on the WTA server that transmits a notification of transmission of the push command to the WTA agent of the target mobile terminal.

56. The system according to Claim 55, wherein the request for execution of the WTA protocol based action comprises a contact number of the target mobile terminal.

- 5 57. The system according to Claim 55, wherein the WTA protocol based action comprises automatically accepting a call at the target mobile terminal.

- 10 58. The system according to Claim 55, wherein the notification of transmission of the push command initiates a communication from the request center to the target mobile terminal; and wherein the WTA agent of the target mobile terminal is configured to initiate at the target mobile terminal the WTA protocol based action responsive to the communication from the request center to the target mobile device.

- 15 59. The system according to Claim 58 wherein the request center comprises a customer service center having an applications server and wherein the applications server is the receiving server that receives the request for execution of the WTA protocol based action and forwards the request to the WTA server.

- 20 60. The system according to Claim 59, further comprising an application executing on the applications server that initiates the communication from the request center to the target mobile terminal responsive to the notification of transmission of the push command.

- 25 61. The system according to Claim 57, further comprising an application executing on the applications server that notifies the request representative to initiate the communication.

- 30 62. The system according to Claim 55, wherein the state of the target mobile terminal is an accept call state and wherein the accept call state is activated by an accept call command located in the Wireless Telephony Application Interface (WTAI) private library responsive to the push command.

63. The system according to Claim 55, wherein the WTA server, responsive to the request from the request center, is configured to initiate an authentication between the WTA server and the target mobile terminal, determine if a
5 Wireless Application Protocol (WAP) session has been initiated, and initiate the WAP session if the WAP session has not been initiated; and wherein the WTA server is further configured to transmit, responsive to the push command, a Service Load (SL) push command including a URL to the WTA user agent of the target mobile terminal using the WAP session; and wherein the WTA agent of the target mobile terminal is
10 configured to access the URL responsive to the push command wherein the URL is associated with a script that executes an accept call command associated with a Wireless Telephony Application Interface (WTAI) private library.

64. The system according to Claim 63, wherein the accept call command
15 initiates the WTA protocol based action at the target mobile terminal.

65. The system according to Claim 63, wherein the WTA server is configured to send a Session Initiation Application (SIA) to the WTA agent responsive to the push command and wherein the WTA agent is configured to initiate
20 the WAP session responsive to the SIA.

66. The system according to Claim 55, wherein the push command comprises an accept call command associated with a Wireless Telephony Application Interface (WTAI) private library.
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67. The system according to Claim 55, wherein the request center comprises an application executing on an applications server that is configured to receive a communication from the target mobile.

68. The system according to Claim 67, wherein the received communication from the target mobile terminal comprises positioning information provided by at least one of a Global Positioning System (GPS) associated with the target mobile terminal and a land based automated positioning system associated with the target mobile terminal.

69. The system according to Claim 67, wherein the received information from the target mobile terminal comprises an image provided by a digital camera device associated with the target mobile terminal.

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70. The system according to Claim 55, wherein the receiving server is the WTA server.

71. A system for requesting Wireless Telephony Application (WTA) protocol based actions, the comprising:
- means for receiving a request for execution of the WTA protocol based action by a target mobile terminal having a WTA agent, the request including an identification code that identifies a destination device for the WTA protocol based action;
- 15 means for associating a Uniform Resource Locator (URL) with the identification code that identifies the destination device;
- means for generating at a server a push command including the associated URL; and
- means for transmitting the push command to the target mobile terminal to
- 20 initiate the requested WTA protocol based action by the WTA agent of the target mobile terminal.

72. A system for requesting Wireless Telephony Application (WTA) protocol based actions, the method comprising:
- 25 means for receiving from a request center a request for execution of the WTA protocol based action by a target mobile terminal having a WTA agent;
- means for generating at a WTA server a push command selecting a state of the target mobile terminal based on the requested WTA protocol based action;
- means for transmitting the push command to the WTA agent of the target
- 30 mobile terminal; and
- means for notifying the request center that the push command has been transmitted to the WTA agent of the target mobile terminal.

73. A computer program product for requesting Wireless Telephony Application (WTA) protocol based actions, comprising:

- a computer readable program medium having computer readable code embodied therein, the computer readable code comprising:
 - computer readable program code which receives a request for execution of the WTA protocol based action by a target mobile terminal having a WTA agent, the request including an identification code that identifies a destination device for the WTA protocol based action;
 - computer readable program code which associates a Uniform Resource Locator (URL) with the identification code that identifies the destination device;
 - computer readable program code which generates at a server a push command including the associated URL; and
 - computer readable program code which transmits the push command to the target mobile terminal to initiate the requested WTA protocol based action by the WTA agent of the target mobile terminal.

74. A computer program product for requesting Wireless Telephony Application (WTA) protocol based actions, comprising:

- a computer readable program medium having computer readable code embodied therein, the computer readable code comprising:
 - computer readable program code which receives from a request center a request for execution of the WTA protocol based action by a target mobile terminal having a WTA agent;
 - computer readable program code which generates at a WTA server a push command selecting a state of the target mobile terminal based on the requested WTA protocol based action;
 - computer readable program code which transmits the push command to the WTA agent of the target mobile terminal;
 - computer readable program code which notifies the request center that the push command has been transmitted to the WTA agent of the target mobile terminal.